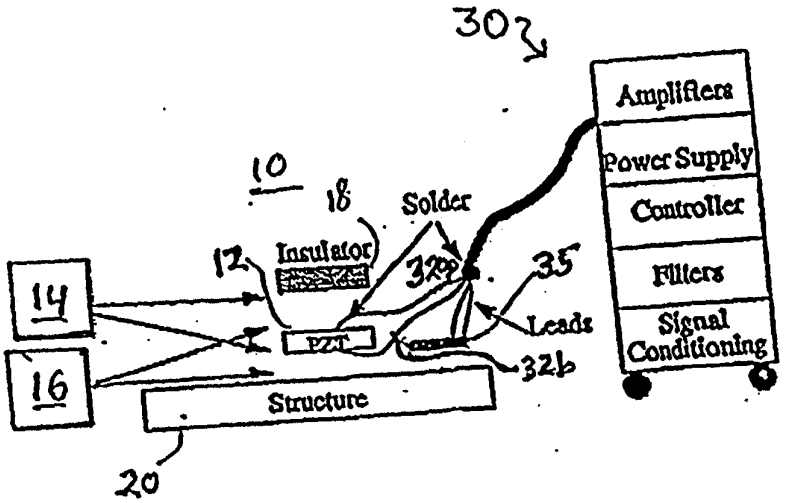


FIGURE 1A
(PRIOR ART)

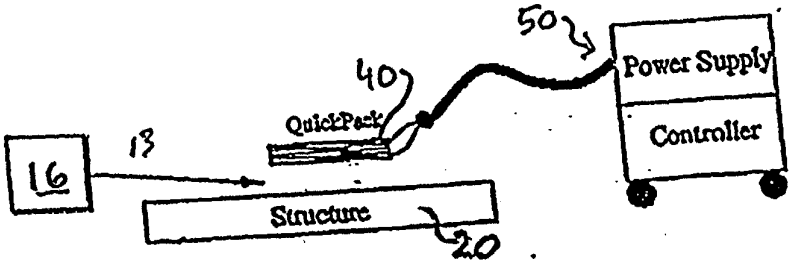


FIGURE 1B

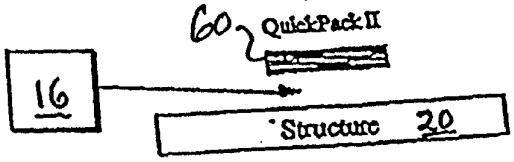


FIGURE 1C

6624710 "23 FOUBED

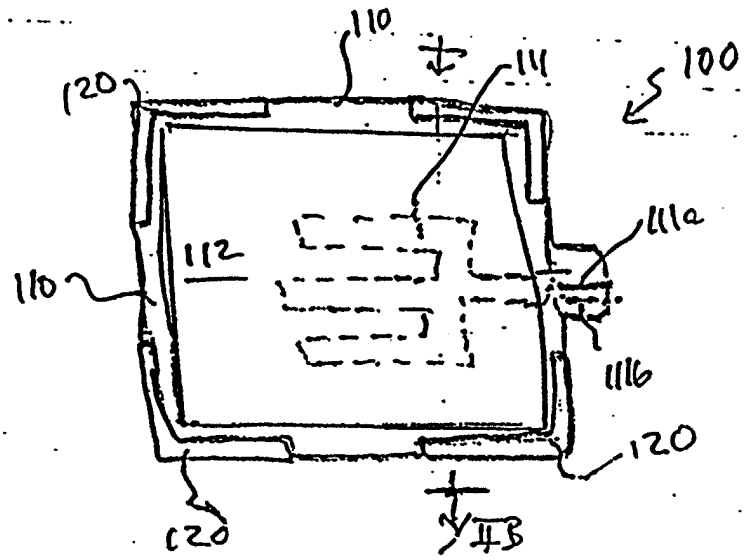


FIGURE 2A

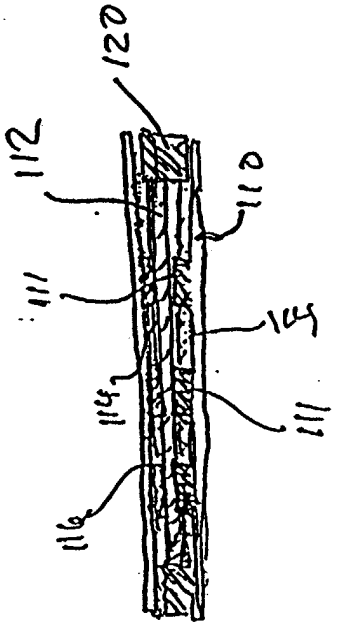


FIGURE 2B

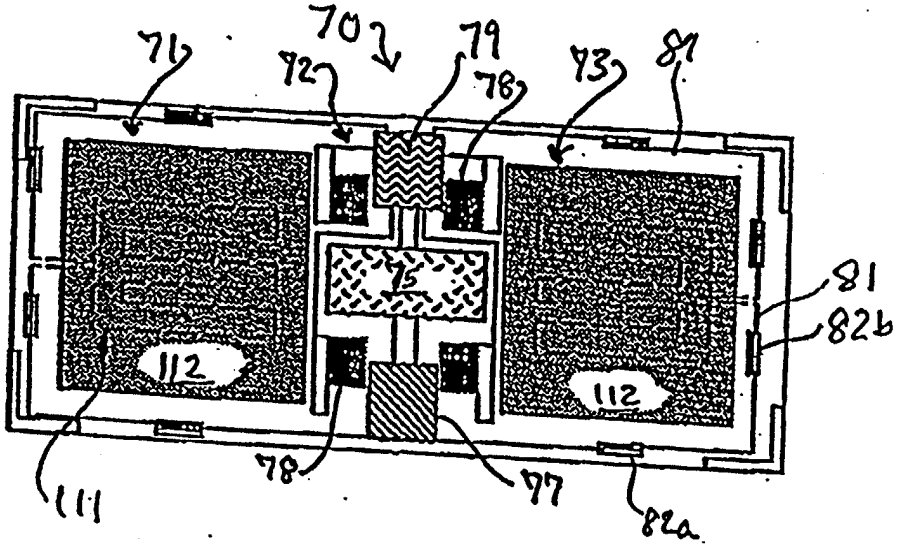


FIGURE 2C

6562740 "2E700E60

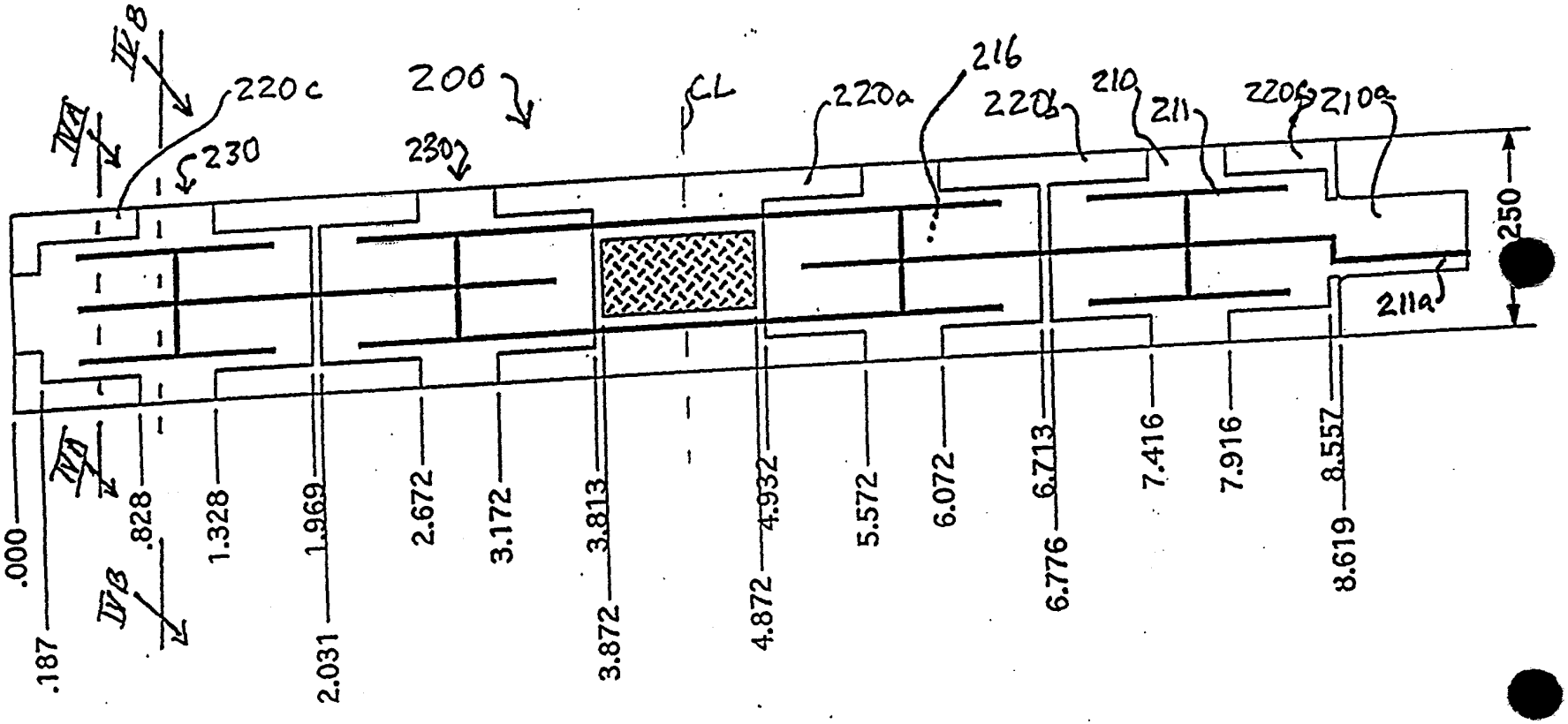


FIGURE 3

09300137 "0462240"

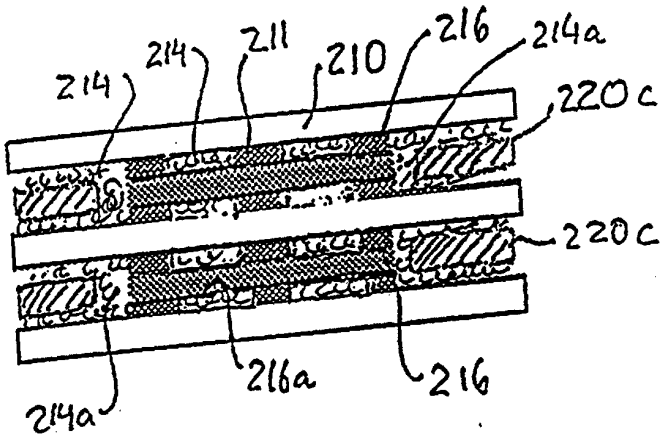


FIGURE 4A

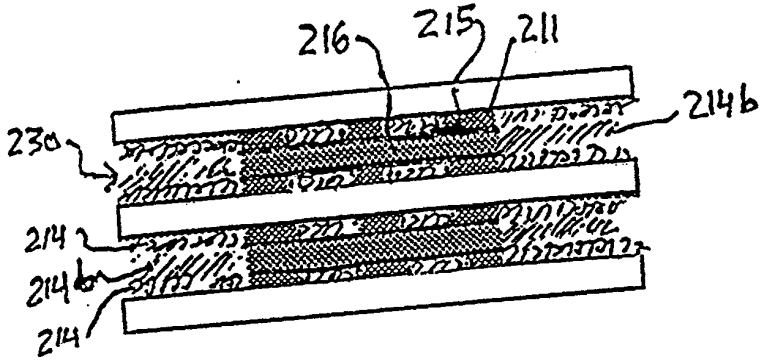


FIGURE 4B

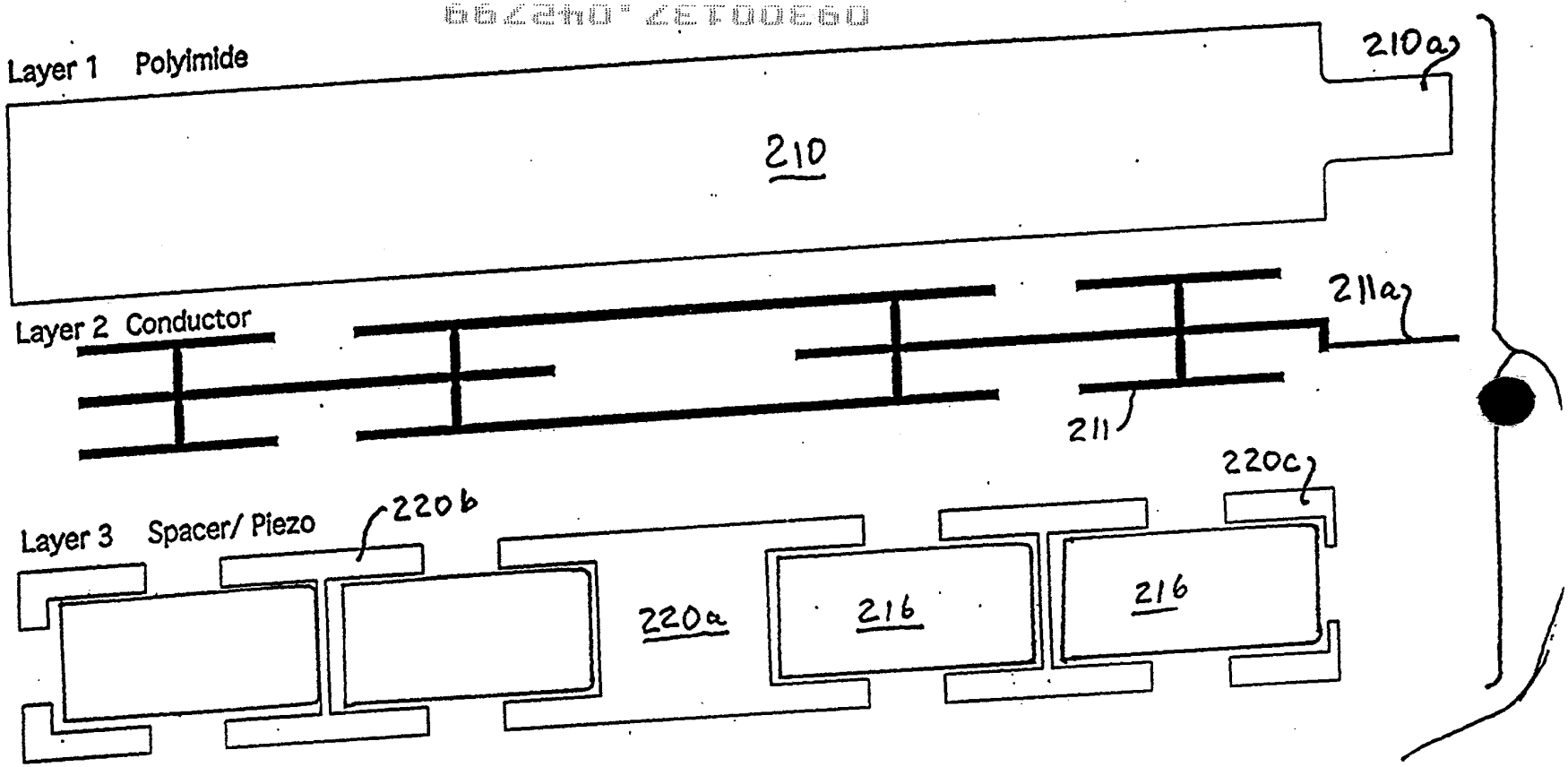


FIGURE 5

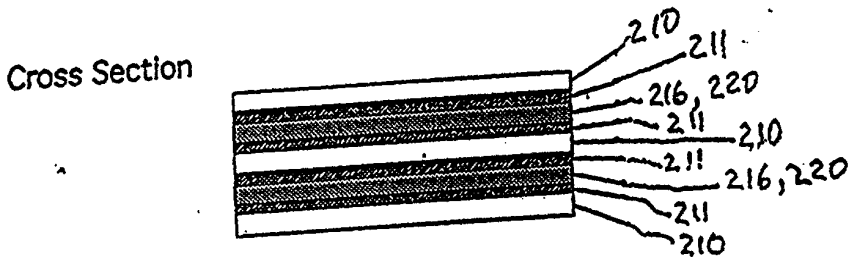


FIGURE 5A

B82240 "28T00E60

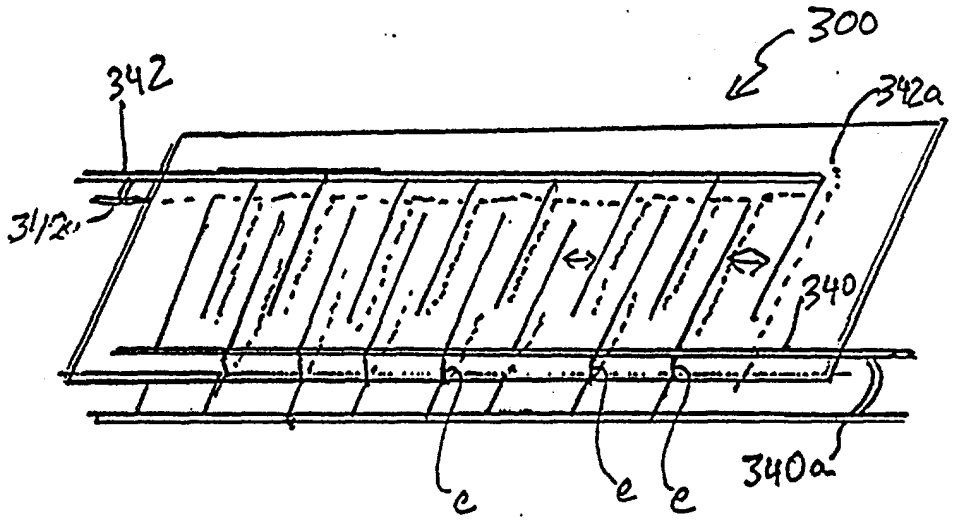


FIGURE 6

09300137 "0h2698

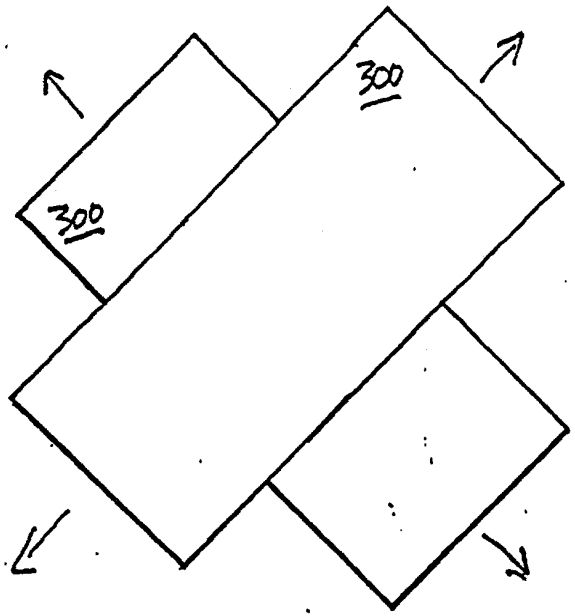


FIGURE 7

86240 "ZE10E60

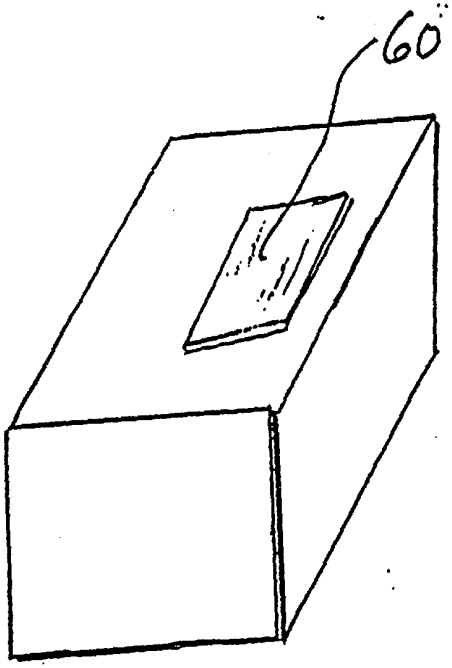


FIGURE 8A

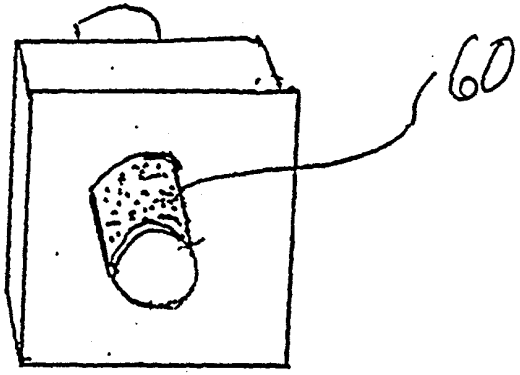


FIGURE 8B

FIGURE 9

9(a) – 9(h)
Page 1 of 2

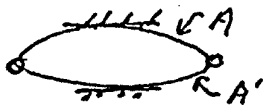
Single actuators:

stack 9(a)

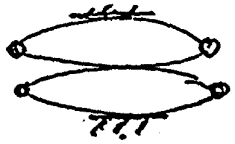
bender (cantilever) 9(b)

pin-pin bender 9(c)

Multiple actuators:

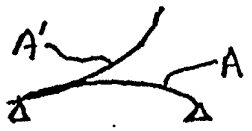


pin-pin bellows 9(d)



multiple pin-pin bellows 9(e)

pin-pin with lever 9(f)

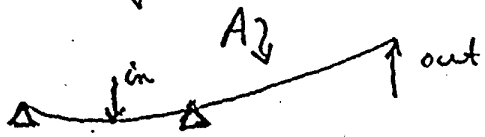


pin-pin with cantilever bender 9(g)

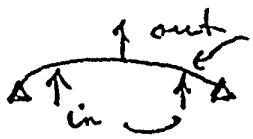
out & back cantilever 9(h)

FIGURE 9 — 9(i) – 9(q)

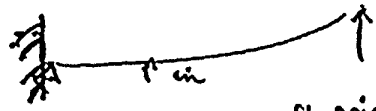
in conjunction with bender-levers:



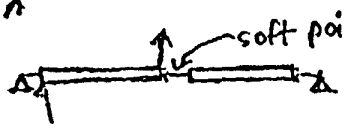
pin pin overhang 9(i)



pin pin 9(j)



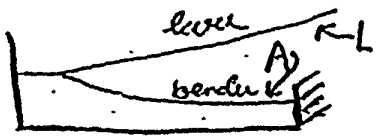
cantilever 9(k)



pin-pin with soft points 9(l)

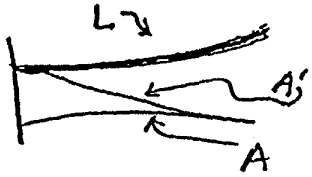
multiple actuator / bender levers:

cantilever bender + cantilever lever



9(m)

out & back cantilever bender + cantilever lever

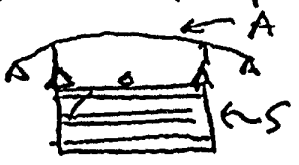


9(n)

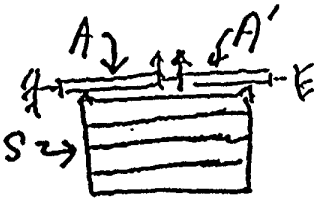
pin pin bellows + pin pin overhang

9(o)

stack + pin pin



9(p)



9(q)

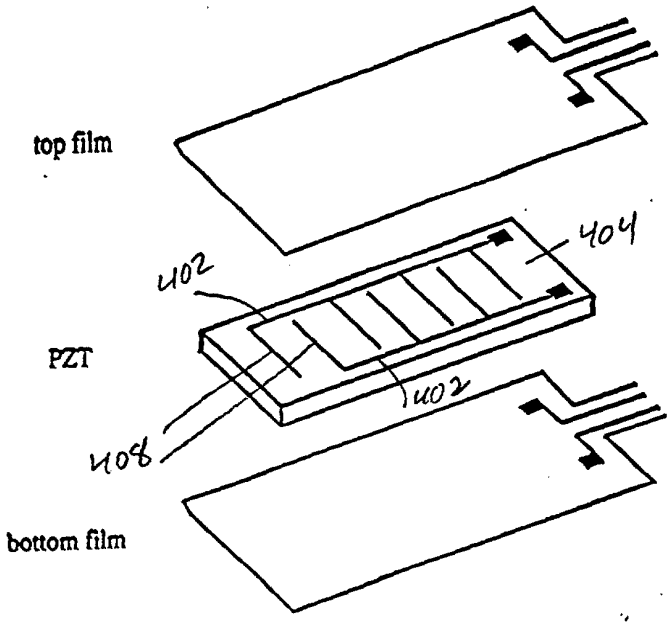


FIGURE 10A

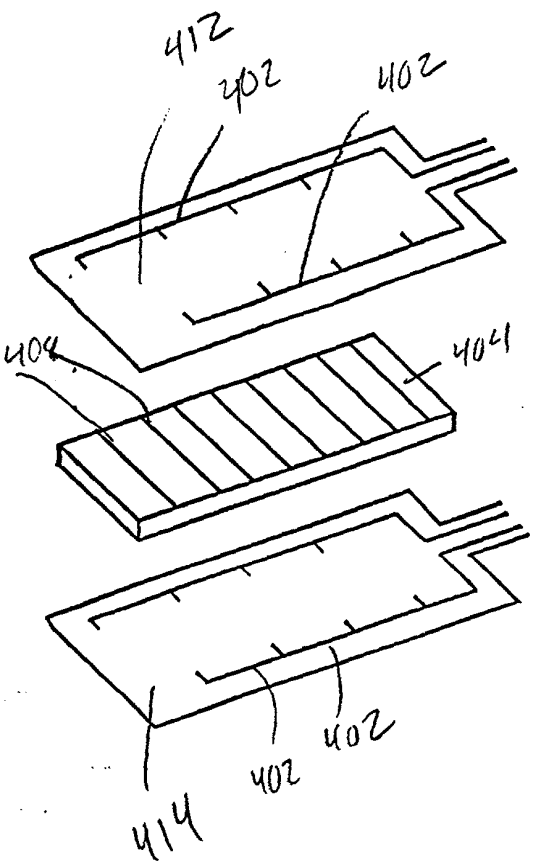


FIGURE 10B

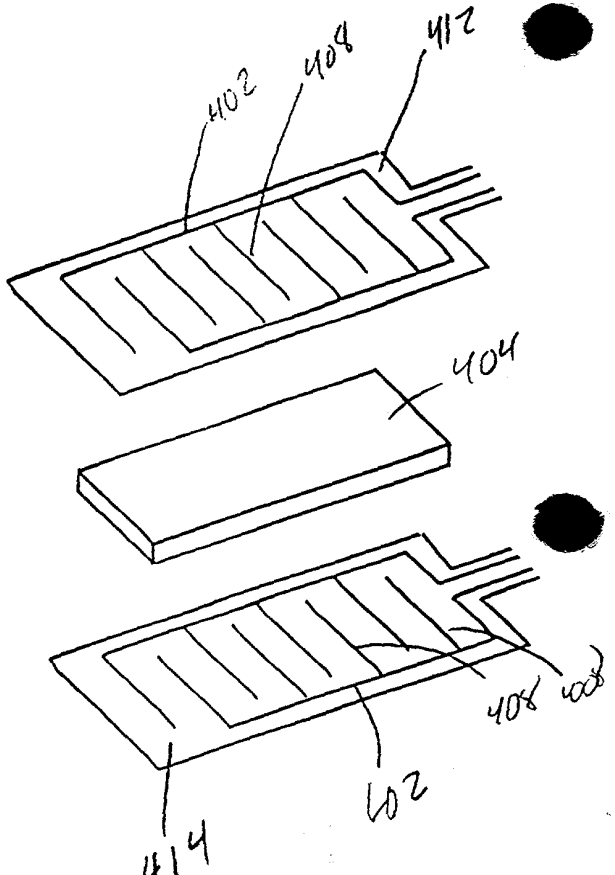


FIGURE 10C

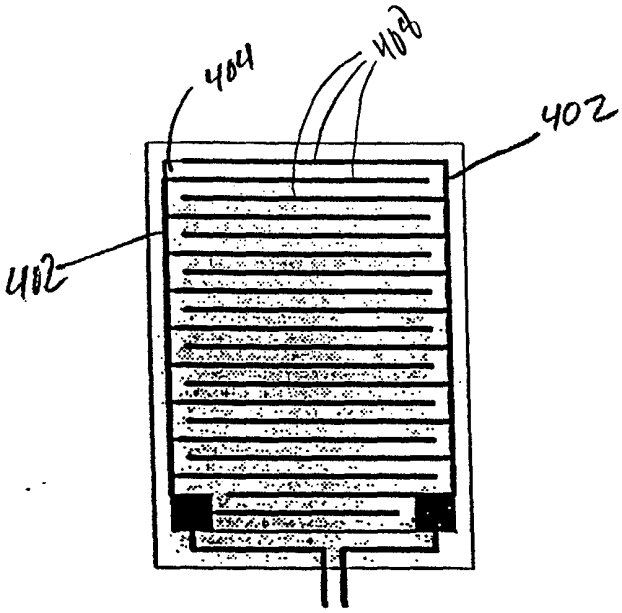


FIGURE 11A

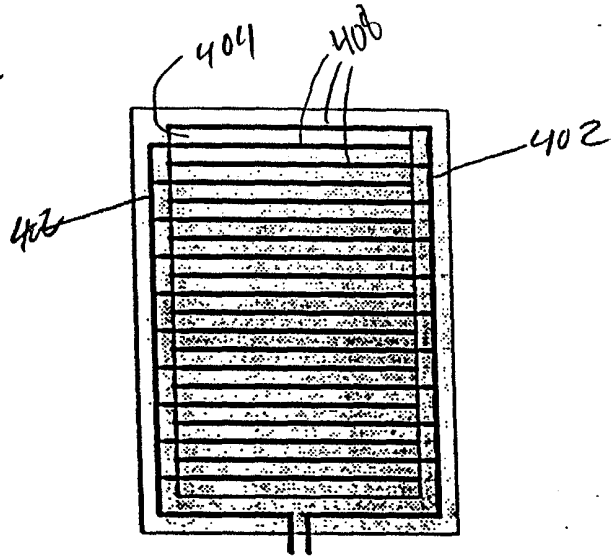


FIGURE 11B

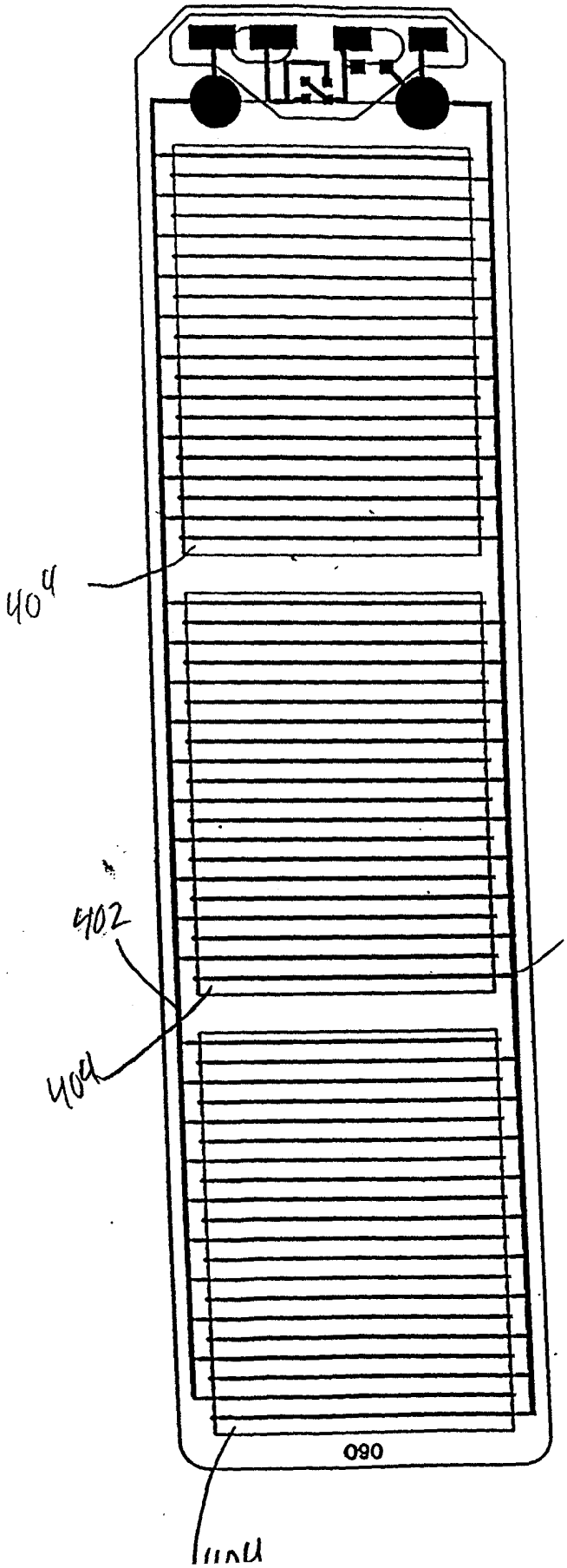


FIGURE 12

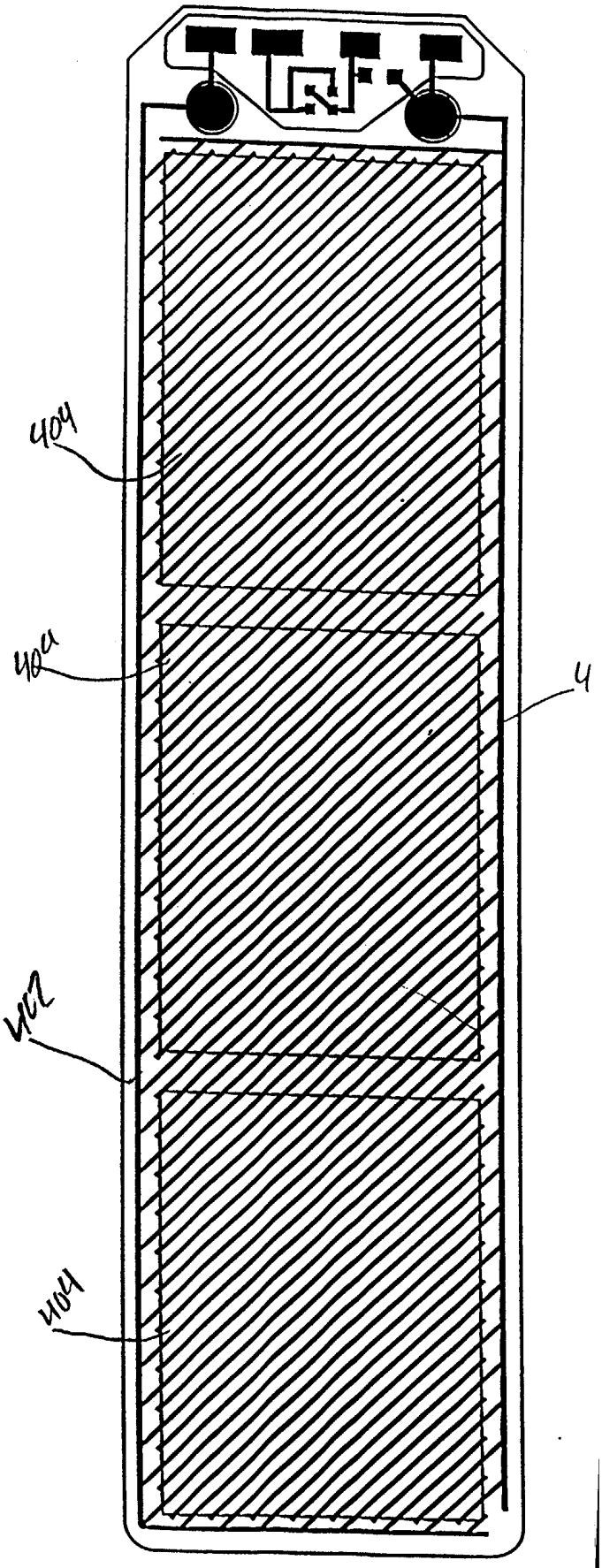


FIGURE 13

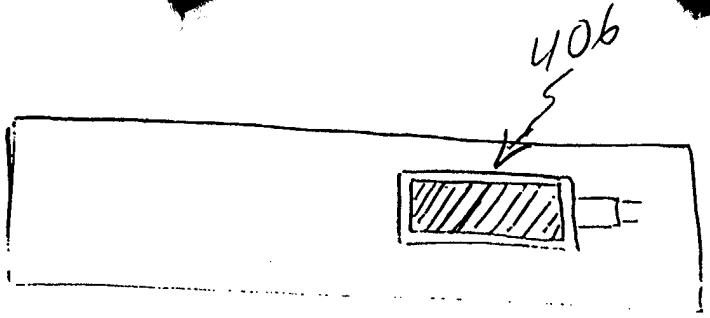


FIGURE 14A

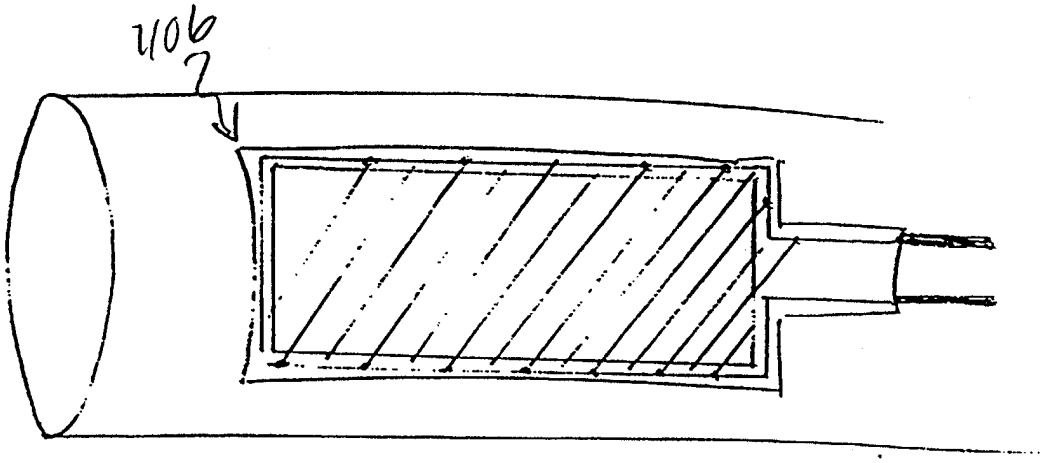


FIGURE 14B

09624h0" 2ET00E60

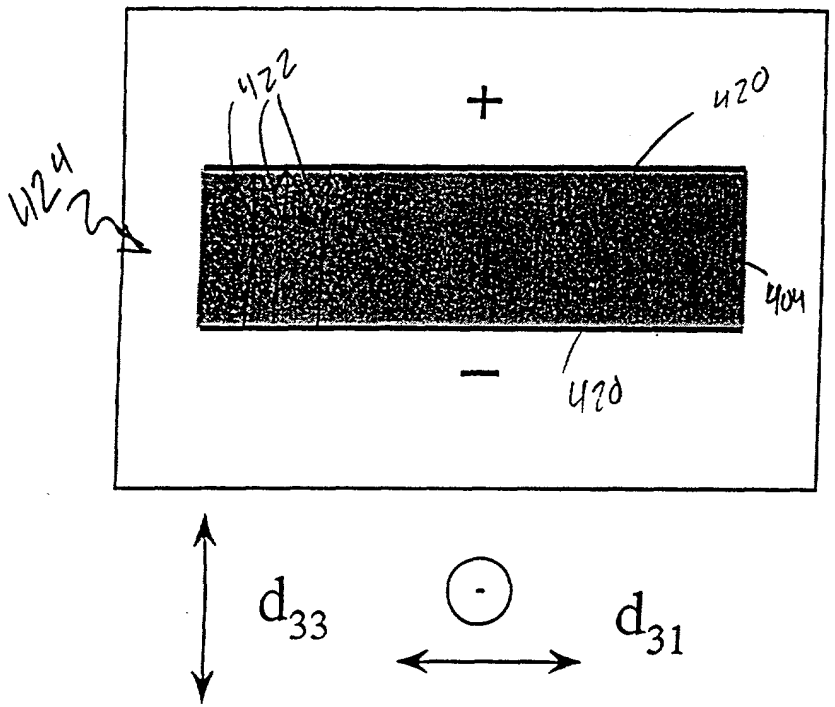


FIGURE 15A

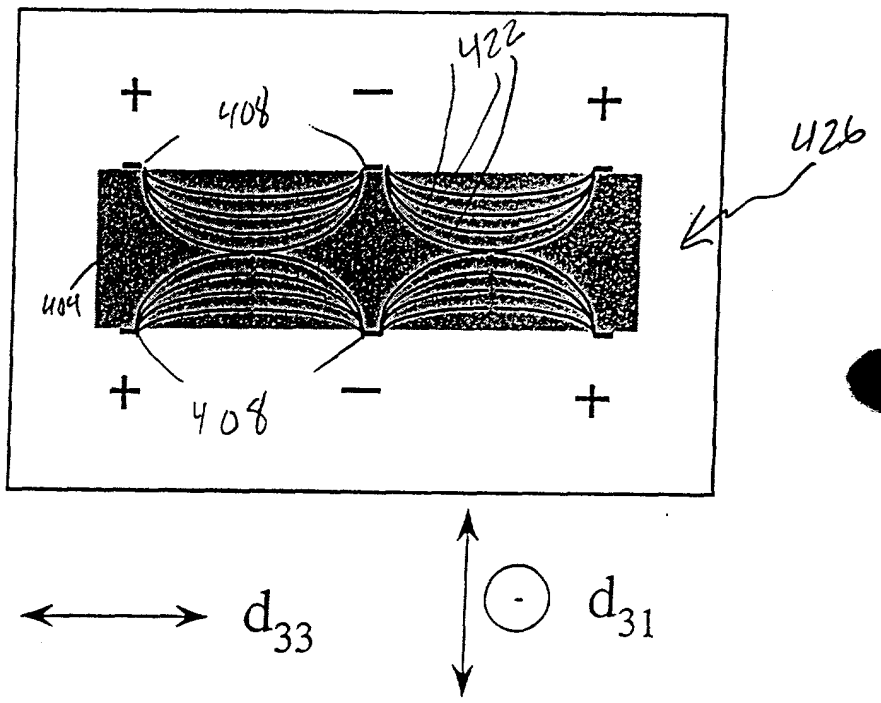


FIGURE 15B

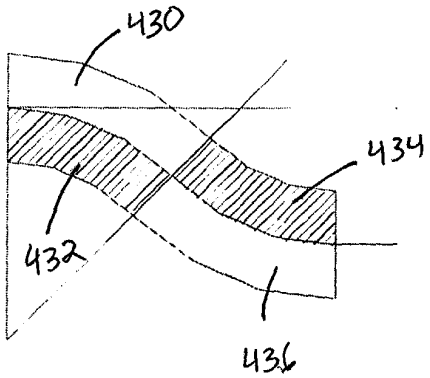


FIGURE 16

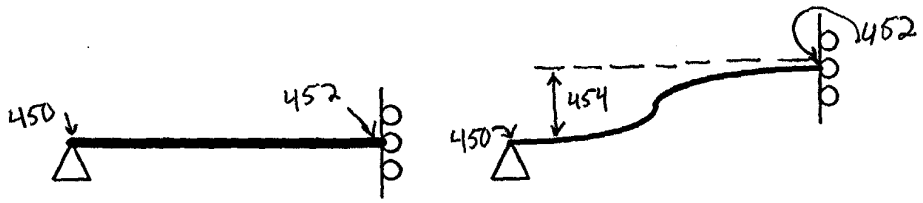


FIGURE 17